

**SEAT BELT RETRACTOR WITH INTEGRALLY FORMED  
FRAME**

**Abstract**

5           A seat belt retractor (20) characterized by low  
mass and low operating noise, resistant to dust,  
moisture, and corrosion comprising: an integrally  
formed, quadrilaterally shaped main body portion  
(24). In the preferred embodiment of the invention  
10 the frame is injection molded using 50% or greater  
long glass fiber plastic or die cast or injection  
molded metal. A spring housing wall and wall of a  
mechanism cover are also integrally formed in the  
sides of the retractor. Positioned within the  
15 spring housing wall is a spring coil guide, as well  
as an integrally formed anchor, which is used to  
hold the outer end of a rewind spring. The  
mechanism side of the frame further includes an  
integrally formed post or pin to pivotally support a  
20 locking pawl.